

Claim

- 1 1. An air bag assembly 20 comprising:
2 an inflatable air bag 30 comprising at least a first inflatable region or
3 chamber 32, 34 having a plurality of restrictions, seams or joints located about at
4 least a portion of the periphery of the inflatable region, the restrictions extending
5 inwardly from respective locations proximate the periphery of the inflatable region
6 32, the restrictions configured to locally restrict the inflation of the inflatable region
7 and configured to permit the inflatable region to achieve a maximum width in a
8 region generally inboard of the restrictions.
- 1 2. The assembly as defined in Claim 1 wherein the air bag includes an inner
2 panel and an outer panel configured to form the inflatable region the inner and
3 outer panels joined together along the plurality of restrictions, seams or joints
4 each of which extends inwardly from near an edge of the inflatable region.
- 1 3. The assembly as defined in Claim 2 wherein the inner panel, the outer
2 panel, and the plurality of joints are formed as an integrally woven part.
- 1 4. The assembly as defined in Claim 1 further including an inlet formed along
2 a periphery of the inflatable region to receive a source of inflation gas.
- 1 5. The assembly as defined in Claim 2 wherein the inner and the outer
2 panels are coated to reduce permeability of gas flow therethrough.
- 1 6. The assembly as defined in Claim 1 wherein the air bag includes a
2 plurality of inflatable regions.
- 1 7. The assembly as defined in Claim 6 wherein the air bag includes a non-
2 inflatable region situated between opposing inflatable regions.

1 8. The assembly as defined in Claim 1 wherein each restriction, seam or joint
2 terminates in a stress reducing structure (the lollipop).

1 9. The assembly as defined in Claim 1 wherein a first set of restrictions,
2 seams or joints is situated along a top of the inflatable region and wherein each
3 joint of the first set is spaced from each other.

1 10. The assembly as defined in Claim 8 wherein a second set of restrictions,
2 seams or joints is situated along a bottom of the inflatable region and wherein
3 each restriction, seam or joint of the second set is spaced from each other.

1 11. The assembly as defined in Claim 10 wherein each restriction, seam or
2 joint of the first set of joints is misaligned relative to a corresponding restriction,
3 seam or joint of the second set of restrictions, seams or joints.

1 12. The assembly as defined in Claim 11 wherein at least some of the
2 restrictions of the second set of restrictions terminate in a stress reducing
3 structure (the lollipop) and wherein each stress reducing structure does not lie on
4 the same line.

1 13. An air bag assembly 20 comprising:
2 an air bag 30 including at least a first inflatable region 32, 34 having a
3 plurality of restrictions 120, 124, 126 peripherally located about the inflatable
4 region and configured to restrict the degree of inflation of the air bag proximate
5 the restrictions,
6 the restrictions configured to permit the first inflatable region of the
7 air bag to achieve its maximum inflatable size in a region interior to the plurality of
8 restrictions.

1 14. The assembly as included in Claim 13 wherein the air bag includes a
2 second inflatable region having a plurality of peripherally situated restrictions.

1 15. The assembly as defined in Claim 14 including an uninflated region
2 between the first and second inflatable regions.

1 16. An air bag assembly 20 comprising:
2 an air bag 30 including at least a first inflatable region 32, 34 of
3 determinable size, the inflatable region having a plurality of restrictions 120, 124,
4 126 peripherally located about the inflatable region,
5 the restrictions configured to permit the first inflatable region of the
6 air bag to achieve its maximum inflatable size in a central region interior to the
7 plurality of restrictions, the size of the central regions is determinable by the
8 length of the restrictions..

1 17. The air bag as defined in Claim 16 including a first set of restrictions
2 extending from a top uninflated portion of the air bag toward the central region.

1 18. The air bag as defined in Claim 15 including a second set of restrictions
2 extending from a bottom uninflated portion of the air bag toward the central
3 region.